

NuEdison

Bringing Solar Power Into the Mainstream

Presented by:
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President and CEO

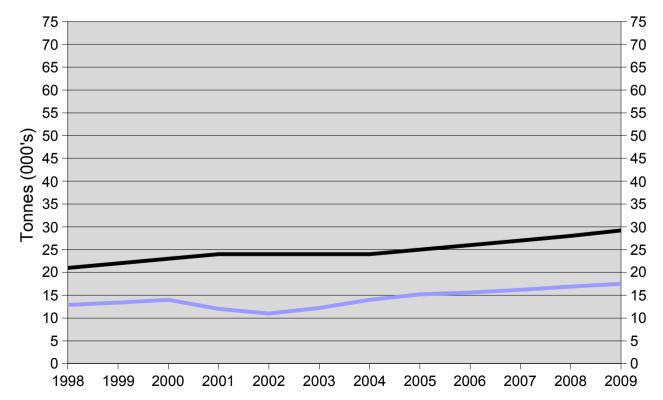




The Opportunity

- Since '70's PV used electronics scrap Si
- By 1998 some prime Si was needed

Semiconductor Grade Silicon Feedstock



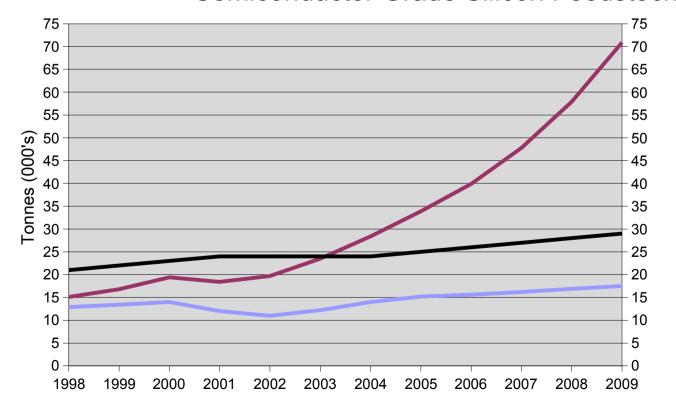
Capacity
Electronics

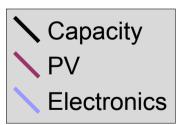


Out of Silicon!

- PV Mfgs can't meet 2005 demand due to Si shortage
- Si industry max historical growth 4%
- Material from new plants \$65/kg (old PV model \$35/kg)

Semiconductor Grade Silicon Feedstock







The NuEdison Module Benefits

- Module uses 40 50% less Silicon (Si)
- High efficiency (comparable to highest grade Si)
- 25-35% cheaper
- 30% lighter
- Form factor and installation virtually identical to standard modules*
- Protected by 1 pending and 2 provisional patents
- * or better with product follow ons



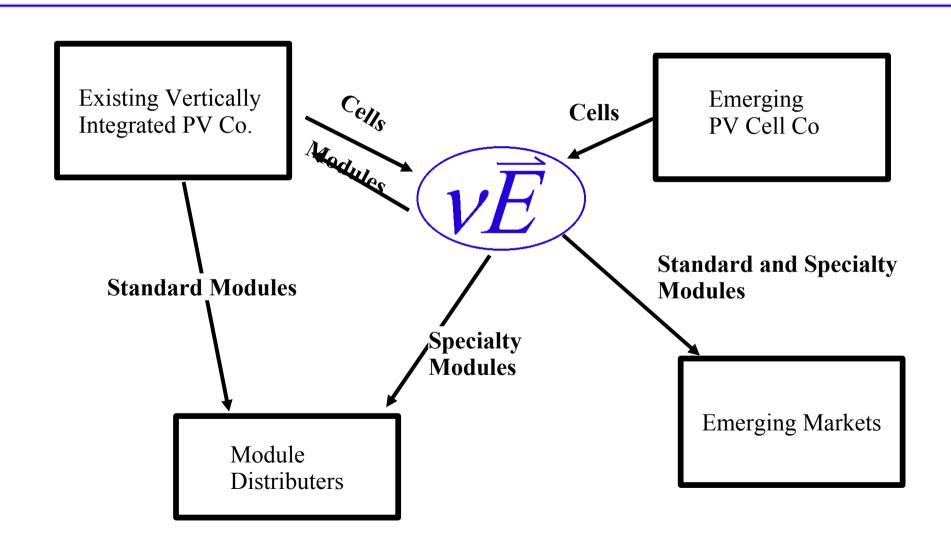
The Photovoltaic (PV) Market

- Market size: PV still < 1% new generating capacity
 - > \$2.0B -2003, \$3.0B 2004
 - 25-50% growth rate each of last 10 years
- Impact of incentives
 - Incentives expanding in U.S. (NJ,NY,NM)
 - Market stable in CA despite dramatically reduced incentives
 - RPS* in 18 states (so far) mandate growth for 20 years
 - Kyoto creates new market in rest of world

^{*} Renewable Portfolio Standards



NuEdison Market Position





Value Proposition

Helping our customers make more money

- ◆ 67% Higher revenues from same plant
- \$3/Cell greater profit (+150%)

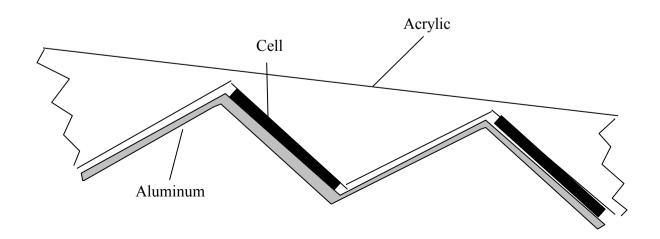
"Tale of Two Cells"
16%, 125mm Solar Cell in Two Different Modules

	Traditional (\$2.06/W)	NuEdison (\$1.63/W)
Cell Cost	\$3.90	\$3.90
Module Cost	\$1.25	\$2.91
Total Cost	\$5.15	\$6.81
Revenue	\$7.13	\$11.90
Profit	\$1.98	\$5.09
Gross Margin	27.7%	42.8%



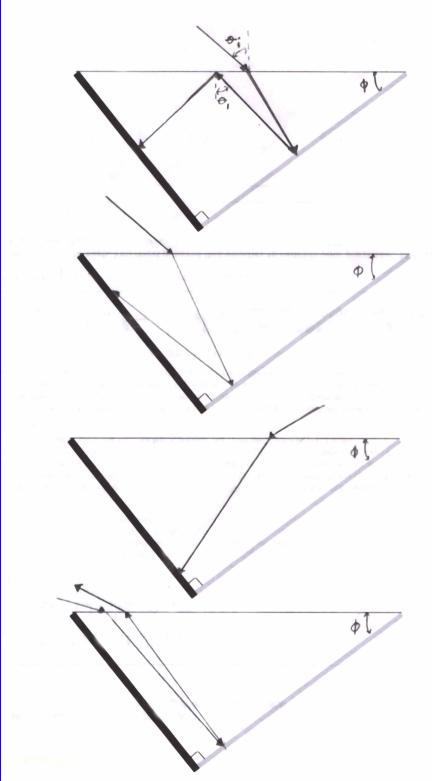
How It Works

- Molded acrylic forms bulk of module (~10mm max thickness)
- Small (12.5mm x 125mm) solar cell coupled to one side of prism (encapsulated in EVA)





- Light reflected off Al is trapped (TIR)
- Other rays reach the cell directly
- Rays incident at a shallow angle are rejected – but most of their energy is reflected off a flat module too
- Concentration factor is 1/sin(Φ)





Prototype





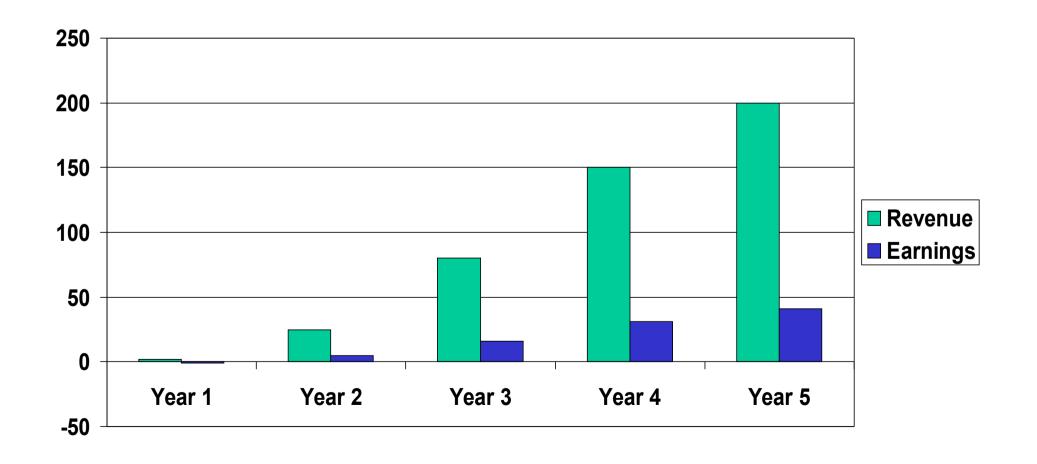
Competitor's Solutions

	Si One Sun	Thin Film	High Conc.	(VĒ)
Low Si Consumption	X			
Low Cost	X			
High Efficiency		X		
Low Maintenance			X	
All Climates			X	



Revenue Plan

\$200 Million Revenue in 5 years





Financing

- Series A
 - ◆\$3 Million
 - Est. Close Spring '06
 - Prototype development / Beta tests
 - Accelerated life testing
 - UL etc. Certifications
 - 2MW Pilot line (9 months after funding)
- Series B
 - \$3 Million
 - Customer participation desired
 - Manufacturing capacity build



NuEdison Team

- Joe Lichy Founder, CEO
 - Inventor of NuEdison module
 - 15 years R&D experience
 - 9 years startup experience w/succesful exit
- Ed Bless Director of operations
 - Former COO
 - Quality engineering expert with leadership roles at
 - Philips Semiconductor
 - Electroglass
- Doug Crafts Manufacturing Advisor
 - 2 successful startup exits (both sold to JDSU)
 - Developed major production technologies at Intel



Conclusion

The NuEdison Solution:

- Solves Si supply problem
- Doubles customer earnings
- High efficiency
- No mechanical tracking necessary

Investment Potential

- \$200 Million revenue in 5 years
 - \$6 Million total investment



NuEdison

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Product Roadmap

- Molded plastic body, tunability of the concentrator offer the opportunity for unique products:
 - North Facing, Vertical, and High Latitude optimized modules
 - Up to 2.8x concentration in these cases
 - Only economical solution for low light areas
 - Germany (largest PV market) > 45°N Latitude
 - Building integrated modules (solar shingles)
 - Custom shapes and sizes
 - Higher concentration modules for tracking systems



Module Cost Reduced

Cell cost savings greater than added module costs

Savings higher for higher efficiency cells

167W Module Using 16%, 125mm Solar Cells

	Traditional	\$/W	NuEdison	\$/W
Cell Cost	\$261	\$1.56	\$156	\$0.93
Module Cost	\$84	\$0.50	\$116	\$0.70
Total Cost	\$344	\$2.06	\$272	\$1.63
Revenue	\$476	\$2.85	\$476	\$2.85
Profit	\$132	\$0.79	\$204	\$1.22
Gross Margin	27.7%		42.8%	



Customer Response

Schott Solar

- "Absolutely interested in a solution along these lines."
- Already uses OEM for modules in Europe (75%)
- Low Si consumption process (not ideal customer)

Evergreen

- Potential synergy in use of small cells
- Solves a problem we are having
- Low Si consumption/ Low efficiency process (not ideal customer)

BP Solar

- Wants to see prototype with BP Cells (sent material)
- Will test modules in different climates